

WHAT IS CLAIMED IS:

1. A method of separating compounds, the method comprising the steps of:

- Sub 5
- a. tagging at least a first organic compound with a first tagging moiety to result in a first tagged compound;
- b. tagging at least a second organic compound with a second tagging moiety different from the first tagging moiety to result in a second tagged compound; and
- 10 c. separating the first tagged compound from a mixture including at least the second tagged compound using a separation technique based upon differences between the first tagging moiety and the second tagging moiety, the separation technique being based upon difference in fluorous nature of the first tagged compound and the second tagged compound, differences in total charge between the first tagged compound and the second tagged compound, differences in size between the first tagged compound and the second tagged compound, or differences in polarity between the first tagged compound and the second tagged compound.
- 15
- 20

23
A2

1

10

15

The method of Claim 1 wherein the first and the second tagging moiety are oligonucleotides that differ in size.

The method of Claim 6 wherein the first and the second tagged compound are separated on chromatography.

The method of Claim 1 wherein the first and the second tagging moiety differ

20

[illegible]

9. The method of Claim 8 wherein the first tagged compound and the second tagged compound are separated by standard or reverse phase chromatography.

10. The method of Claim 1 wherein the first tagging moiety and the second tagging moiety are selected so that the order in which the first tagged compound and the second tagged compound separate is predetermined.

11. A method of separating compounds, the method comprising the steps of:

- Sub
R
- 10
- 15
- 20
- a. tagging at least a first organic compound with a first fluorous tagging moiety to result in a first tagged compound;
 - b. tagging at least a second organic compound with a second fluorous tagging moiety different from the first tagging moiety to result in a second tagged compound; and
 - c. separating the first tagged compound from a mixture including the second tagged compound using a separation technique based upon differences in the fluorous nature of the first tagged compound and the second tagged compound.

12. The method of Claim 11 wherein the first fluorous tagging moiety and the second fluorous tagging moiety differ in fluorine content or structure.

503
A3
13. The method of Claim 12 wherein the first tagged compounds and the second tagged compounds are separated using fluorous reverse phase chromatography.

14. A method of separating compounds, the method comprising the steps of: tagging a plurality of organic compounds with a plurality of fluorous tagging moieties to result in a plurality of tagged compounds, each of the fluorous tagging moieties being different; and separating at least one of the plurality of tagged compounds from other tagged compounds with a different tag using a separation technique based upon differences in the fluorous nature of the tagged compounds.

Sub
A4
15. The method of Claim 14 wherein the first fluorous tagging moiety and the second fluorous tagging moiety differ in fluorine content or structure.

Sub
A5
16. The method of Claim 15 wherein the first tagged compounds and the second tagged compounds are separated using fluorous reverse phase chromatography.

17. A method for carrying out a chemical reaction, comprising the steps of: tagging a plurality of compounds with different tagging moieties to create tagged compounds, conducting at least one chemical reaction on the tagged compounds to produce a mixture of tagged products, and separating at least one of the tagged products from the mixture of tagged products by a method based upon differences in the tagging moieties.

18. The method of Claim 17 further including the step of removing the tagging moieties from the tagged products.

19. The method of Claim 17 wherein the tagging
5 moieties are fluorous moieties that differ in fluorous nature.

20. The method of Claim 19 wherein the fluorous tagging moieties differ in fluorine content or structure.

21. The method of Claim 19 wherein the tagged
10 products are separated by using fluorous reverse phase chromatography.

22. The method of Claim 17 wherein the tagging moieties differ in total charge.

23. The method of Claim 22 wherein the tagged
15 products are separated by electrophoresis.

24. The method of Claim 17 wherein tagging moieties are oligomers, polymers, or dendrimers that differ in size.

25. The method of Claim 24 wherein the tagged
20 products are separated by size exclusion chromatography.

26. The method of Claim 17 wherein the tagging moieties differ in polarity.

27. The method of Claim 26 wherein the tagged products are separated by standard or reverse phase chromatography.

28. The method of Claim 17 wherein all of the tagged compounds are reacted with the same starting compounds.

29. The method of Claim 17 wherein a first plurality of compounds is tagged with a first tagging moiety and mixed with other tagged compounds that are tagged with tagging moieties different from the first tagging moiety.

30. The method of Claim 29 wherein the separation of the tagged products provides mixtures of product compounds bearing the same initial tag.

31. The method of Claim 17 wherein the tagged compounds are reacted with a mixture of different starting compounds.

32. The method of Claim 17 wherein the tagged compounds are selectively tagged with different tagging moieties such that the tagged products separate into fractions of known identity as determined by the tagging moieties.

33. A method for carrying out a chemical reaction, comprising the steps of: tagging a plurality of compounds with different fluorous tagging moieties to create tagged compounds, conducting at least one chemical reaction

on the tagged compounds to produce a mixture of tagged products, and separating at least one of the tagged products from the mixture of tagged products by a method based upon differences in the fluorous nature of the tagging moieties.

5 34. The method of Claim 33 further including the step of removing the fluorous tagging moieties from the tagged products.

35. The method of Claim 33 wherein the fluorous tagging moieties differ in fluorine content or structure.

10 36. The method of Claim 35 wherein the tagged products are separated using fluorous reverse phase chromatography.

15 37. The method of Claim 33 wherein a first plurality of compounds is tagged with a first tagging moiety and mixed with other tagged compounds that are tagged with tagging moieties different from the first tagging moiety.

38. The method of Claim 33 wherein the separation of the tagged products provides mixtures of product compounds bearing the same initial tag.

20 39. The method of Claim 33 wherein the tagged compounds are reacted with a mixture of different starting compounds.

40. The method of Claim 33 wherein all of the tagged compounds are reacted with the same starting compounds.

5 41. The method of Claim 33 wherein a first plurality of compounds is tagged with a first fluorous tagging moiety and mixed with other tagged compounds that are tagged with fluorous tagging moieties different from the first tagging moiety.

10 42. The method of Claim 41 wherein the separation of the tagged products provides mixtures of product compounds bearing the same initial tag.

43. The method of Claim 33 wherein the tagged compounds are reacted with a mixture of different starting compounds.

15 44. The method of Claim 33 wherein the tagged compounds are selectively tagged with different tagging moieties such that the tagged products separate into fractions of known identity as determined by the tagging moieties.

20 45. A method of separating compounds, the method comprising the steps of:

- Sub
R-3
- a. tagging a first organic compound with a first tagging moiety to result in a first tagged compound;

- 10

It is the duty of the State to protect the rights of its citizens and to maintain the peace and order of the State. The State has the right to regulate the conduct of its citizens and to enforce the laws of the State. The State has the right to tax its citizens and to collect the taxes. The State has the right to maintain a standing army and to use force to enforce the laws of the State. The State has the right to declare war and to make peace. The State has the right to enter into treaties and to ratify them. The State has the right to coin money and to regulate the value of money. The State has the right to establish a post office and to regulate the mail. The State has the right to establish a system of public education. The State has the right to establish a system of public health and safety. The State has the right to establish a system of public welfare. The State has the right to establish a system of public housing. The State has the right to establish a system of public transportation. The State has the right to establish a system of public utilities. The State has the right to establish a system of public services. The State has the right to establish a system of public administration. The State has the right to establish a system of public justice. The State has the right to establish a system of public security. The State has the right to establish a system of public defense. The State has the right to establish a system of public order. The State has the right to establish a system of public morality. The State has the right to establish a system of public religion. The State has the right to establish a system of public culture. The State has the right to establish a system of public science. The State has the right to establish a system of public art. The State has the right to establish a system of public literature. The State has the right to establish a system of public music. The State has the right to establish a system of public drama. The State has the right to establish a system of public cinema. The State has the right to establish a system of public television. The State has the right to establish a system of public radio. The State has the right to establish a system of public internet. The State has the right to establish a system of public mobile phone. The State has the right to establish a system of public satellite. The State has the right to establish a system of public space. The State has the right to establish a system of public ocean. The State has the right to establish a system of public atmosphere. The State has the right to establish a system of public land. The State has the right to establish a system of public water. The State has the right to establish a system of public air. The State has the right to establish a system of public fire. The State has the right to establish a system of public earth. The State has the right to establish a system of public universe. The State has the right to establish a system of public everything.